

13-2 MANOMETERS

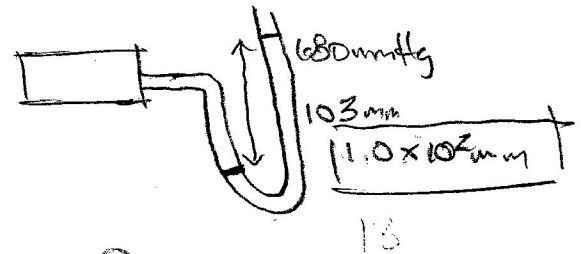
1.) $\frac{5 \text{ cm} / 10 \text{ mm}}{1 \text{ cm}} = 50 \text{ mm}$ $748 \text{ mmHg} - 50 \text{ mmHg} = \frac{(698 \text{ mmHg})}{7.0 \times 10^2 \text{ mmHg}}$

2.) $775 \text{ mmHg} - 145 \text{ mmHg} = \boxed{630. \text{ mmHg}}$

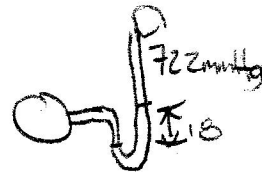
3.) $\frac{95.2 \text{ kPa} / 760 \text{ mmHg}}{101.3 \text{ kPa}} = 714.234 \text{ mmHg}$
 $+ 38 \text{ mmHg}$
 $\boxed{752 \text{ mmHg}}$

4.) $\frac{1.05 \text{ atm} / 760 \text{ mmHg}}{1 \text{ atm}} = 798 \text{ mmHg}$
 $+ 71 \text{ mmHg}$
 $\boxed{869 \text{ mmHg}}$

5.) $\frac{680 \text{ torr} / 760 \text{ mmHg}}{760 \text{ torr}} = 680 \text{ mmHg}$
 $\frac{18.9 \text{ psi} / 760 \text{ mmHg}}{14.7 \text{ psi}} = 977 \text{ mmHg}$



6.) $\frac{0.95 \text{ atm} / 760 \text{ mmHg}}{1 \text{ atm}} = 722 \text{ mmHg}$
 $+ 18 \text{ mmHg}$
 $\boxed{740 \text{ mmHg}}$



7.) $\frac{732 \text{ mmHg} - 27 \text{ mmHg}}{705 \text{ mmHg}}$ $\frac{705 \text{ mmHg} / 1 \text{ atm} / 101300 \text{ Pa}}{760 \text{ mmHg} / 1 \text{ atm}} = \frac{93969.0 \text{ Pa}}{9.40 \times 10^4 \text{ Pa}}$

8.) $\frac{7.2 \text{ cm} / 10 \text{ mm}}{1 \text{ cm}} = 72 \text{ mmHg}$

755 mmHg
 $- 72 \text{ mmHg}$
 $\boxed{682 \text{ mmHg}}$

